

REMARKS

Favorable reconsideration of this application as presently amended and in light of the following discussion is respectfully requested.

Claims 20, 24-28, 30, 33-36, 38, 42-45, 47, 50, 51 and 53-60 are pending in the present application. Claims 22, 23, 32, 40, 41 and 49 have been canceled and claims 20, 24-26, 28, 30, 33, 34, 36, 38, 42, 47, 50, 53 and 54 have been amended by the present amendment.

In the outstanding Office Action, claims 20, 22-28, 30, 32-36, 38, 40-45, 47, 49-51 and 53-60 were rejected under 35 U.S.C. § 103(a) as unpatentable over Na et al. in view of Slattery et al. and Schwartz, which is respectfully traversed.

Independent claim 21 includes a combination of features and is directed to a method of generating a transport stream. The method includes reading an MPEG transport stream recorded in a recording medium, the MPEG transport stream including a series of transport packets, generating program managing information for indicating a discontinuity of the MPEG transport stream in a form of a transport packet, inserting the generated program managing information at a connection point in the read MPEG transport stream when a discontinuity occurs in the MPEG transport stream, and transferring the MPEG transport stream including the inserted program managing information through a digital interface. Independent claims 30, 38, 47, 53 and 54 have been amended in a similar manner.

Thus, according to the present invention, an MPEG transport stream (TS) is modified to include program managing information that is inserted into the MPEG TS as a transport packet and then the MPEG transport stream is transferred through a digital interface.

The Office Action relies on Na et al. as creating program management information in the

form of a transport packet and inserting the generated transport packet into the MPEG transport stream and cites column 5, lines 14-32. However, Na et al. discloses an invention related to a DVD on which program streams (PS), not transport streams, are recorded. That is, as shown in Figure 2 of Na et al., Na et al. requires a PS/TS converter in order to reproduce the program streams recorded on the DVD. Thus, Na et al does not teach or suggest reading an MPEG transport stream recorded in a recording medium.

As described in the previously filed response, Na et al. does not teach or suggest inserting program management information into a transport stream, but rather the navigation information in Na et al. is provided separately to the user interface manager 300 as shown in Figure 3. The Office Action relies on Slattery et al. as inserting program management information and relies on Schwartz as transmitting an MPEG stream through a digital interface.

However, Slattery et al. only teaches performing a re-multiplexing operation when a user specification is changed such that a discontinuity will not occur and reassembling the changed PSI and TS. Further, Slattery et al. only teaches inserting the PSI into the data, but does not teach or suggest when or where the PSI is inserted. This differs from the present invention in which the program managing information is inserted to the connection point of the TS when a discontinuity occurs in the TS. Schwartz also does not teach or suggest the claimed invention.

Accordingly, it is respectfully submitted independent claims 20, 30, 38, 47, 53 and 54 and each of the claims depending therefrom are allowable.

### CONCLUSION

For the foregoing reasons and in view of the above clarifying amendments, Applicants respectfully request the Examiner to reconsider and withdraw the rejection of record, and earnestly solicit an early issuance of a Notice of Allowance.

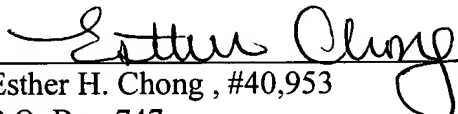

Should there be any outstanding matters which need to be resolved in the present application, the Examiner is respectfully requested to contact David A. Bilodeau (Registration No. 42,325) at the telephone number of the undersigned below, to conduct an interview in an effort to expedite prosecution in connection with the present application.

If necessary, the Commissioner is hereby authorized in this, concurrent, and further replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

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Respectfully submitted,

BIRCH, STEWART, KOLASH & BIRCH, LLP

By    
Esther H. Chong, #40,953  
P.O. Box 747  
Falls Church, VA 22032-0747  
(703) 205-8000

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